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An Enumeration of the Plants Collected by Dr. H. H. Rusby in
South America, 1885-1886.—VI.

(Continued from p. 64.)

Malvastrum tricuspidatum (L.), Gray, Plantæ Wright. i. 16. Reis, 1,500 ft. (1418). Also from Unduavi.

MALVASTRUM MULTICAULE (Schlecht.) *Malva multicaulis*, Schlecht. in Lechler, Pl. Peru, No. 1784, Herb. Kew. Near La Paz, 10,000 ft. (1782).

Sida rhombifolia, L. Sp. Pl. 961. Sorata, 8,000 ft. (1452).

Sida glomerata, Cav. Diss. i. 18. Falls of Madeira (1453).

Sida cordifolia, L. l. c. 961. Mapiri, 2,500 ft. (1456); Guanai, 2,000 ft. (1457).

Sida urens, L. l. c. 963. Reis, 1,500 ft. (1454); Guanai, 2,000 ft. (1454a).

SIDA BENENSIS, spec. nova. §. Cordifoliæ. Foliis ovato-cordatis, 7-nervis, 9 cm. latis et longis, crenato-dentatis, acuminatis, utrinque scabris; petiolis 5-6 cm. longis; floribus paniculatis; paniculis foliosis, terminalibus axillaribusque; pedunculis bracteosis, gracilibus, ad maturitatem 15 mm. longis, pubescentibus; flores parvæ; calicibus pubescentibus, persistentibus; carpellis 5, biaristatis. Junction of the Rivers Beni and Madre de Dios (1455). Resembling in foliage *S. dumosa*, Sw.

Wissadula spicata (HBK.), Presl. Rel. Hænk. ii. 117. Guanai, 2,000 ft. (1862 and 1957).

Wissadula periplocifolia (L.), Griseb. Cat. Plant. Cubens 25. Yungas (1861); Guanai, 2,000 ft. (1860).

Wissadula andina, spec. nova. Frutex erectus, densissime stellato-pubescentibus; foliis petiolatis, cordatis, ovatis, acuminatis, subter pallidis, speciose stellato pubescentibus, supra velutinus; folia 2-4 cm. longa, crenulata; floribus pedicellatis, in paniculis angustis terminalis disposita, albidus, 2 cm. latis; lobis calicibus triangularibus, acuminatis; carpellis 3 vel 4, acutis. Near La Paz, 10,000 ft. (1850).

Mandon's No. 822 may perhaps be referred to the same species. In Bull. Soc. Bot. France, xii. 82, this is, however, alluded to as *Abutilon nudiflorum*, and *Sida virgata*, Cav. is given as a synonym; I am quite satisfied, however, that neither Mandon's nor Rusby's specimens can belong in that species, whatever else it may be.

Abutilon, a large-flowered species the same as Mandon's No. 821, which is alluded to in Bull. Soc. Bot. France, l. c. as *Sida cistiflora*, Cav., but can hardly be that plant. It is left for subsequent investigation. Sorata, 8,000 ft. (660).

Urena lobata, L. Sp. Pl. 974, Reis, 1,500 ft. (1460).

Pavonia Typhalea (L.), Cav. Diss. ii. 134. Mapiri, 5,000 ft. (1487).

Pavonia paniculata, Cav. l. c. iii. 135. Guanai, 2,000 ft. (1789).

Pavonia communis, St. Hil., Flor. Bras. Merid. i. 224. Yungas, 6,000 ft. (1461).

Pavonia diuretica, St. Hil. Plant. Us. t. 53. Falls of Madeira, Brazil. (1459).

PAVONIA MALACOPHYLLA (*Lopimia malacophylla*, Nees & Mart, Nova Acta xi. 97; *Pavonia velutina*, St. Hil.). Guanai, 2,000 ft. (1462).

Gossypium maritimum, Todaro, var. *polycarpum*, Todaro, Rel. Cult. Cot. t. viii. Tacna (659).

Bombax? A species collected only in fruit and not matched at Kew. Yungas, 6,000 ft. (1928).

Chorisia speciosa, St. Hil. Plant. Us. t. 63. Guanai, 2,000 ft. (661).

Ochroma Lagopus, Sw. Flor. Ind. Occ. ii. 1144. Junction of the rivers Beni and Madre de Dios. (1927).

No. 1501 from Mapiri is of this order, perhaps a *Pavonia*, but is not satisfactorily determined.

STERCULIACEÆ.

Helicteres pentandra, L. Mant. 294. Guanai, 2,000 ft. (614).

The same as Matthews, No. 1547 from Peru, Herb. Kew.

Helicteres brevispira, St. Hil. Flor. Bras. Merid. i. 213. Yungas, 6,000 ft. (615).

HELICTERES RUSBYI, spec. nova. § Orthocarpæa. Stamina 10? Flores horizontales, magnæ; inflorascencia sub 6-florus; calycibus stellato-tomentosus, 2 cm. longus; foliis ovato-cordatis, utrinque stellato-tomentosis, crenatibus; petiolis crassis, 2-3 cm. longis; ramis teretibus stellato-tomentosis; carpodia 5-6 cm. longæ, minutissime rufo-tomentosi. Guanai, 2,000 ft. (616). Resembling Balansa's No. 1602 from Paraguay in Herb. Kew.

Melochia hirsuta, Cav. Diss. vi. 320. Guanai, 2,000 ft. (1846).

Melochia venosa, Sw. Prodr. Flor. Ind. Occ. 97. Yungas, 4,000 ft. (1847). No. 1848 is probably the same species.

Waltheria Americana, L. Sp. Pl. 673. Guanai, 2,000 ft. (1405 and 1458).

Theobroma Cacao, L. l. c. 782. Guanai, 2,000 ft. (655).

Theobroma sylvestre, Mart., Bern. Uebers. Theobr. 14? Junction of the rivers Beni and Madre de Dios. (654).

Guazuma ulmifolia, Lam. Encycl. iii. 52. Guanai, 2,000 ft. (1859).

Guazuma tomentosa, HBK. Nov. Gen. & Pl. v. 320. Yungas, 4,000 ft. (1287).

BUETTNERIA PESCAPRÆIFOLIA, spec. nova. Glabra; rami et petioli aculeis destituti; caules ramosi; folia orbicularia vel late ovata, 8-12 cm. lata; apice obtusa vel acuta, cordata, margine integra; petioli gracili, folia æquantia; folia subter pallido-glaucis, nervi prominenti, supra atroviridi, nervi immersis; capsula semiglobosa, 2 cm. diametro, densissime muricata. Flores non vidi. Guanai, 2,000 ft. (2644). Related to *B. discolor*, Benth.

BUETTNERIA BENENSIS, spec. nova. Scandens; folia herbacea, nervis utrinque prominentibus, distincte reticulata; rami et petioli pubescentes, aculeis destituti; foliis valde cordatis, ovatis, sagittatis vel ovato-lanceolatis, subter minutissime pubescentibus, supra glabris, utriusque dentato-serratis, longe acuminatis, 8-13 cm. longis, 5-7 cm. latis, petiolatis; petioli 3-4 cm. longi; inflorescentia parviflora, breviter pedunculata; flores parvi; calyce hirsuto, sepalis lanceolatis, 5 mm. longis; capsula et semina non visa. Junction of the rivers Beni and Madre de Dios. (1964). Resembles in leaf-form specimens in Herb. Kew marked *B. cordifolia*, Sagot from French Guiana, but the plant is smooth except for a few scattered, stellate hairs.

BUETTNERIA BOLIVIANA, spec. nova. Scandens; glabrescens; folia herbacea, utrinque reticulata; rami et petioli aculeis destituti; foliis cordatis, utrinque glabris, ovatis vel acuminatis, serrulatis, 6-8 cm. longis, 4-5 cm. latis, gracile petiolatis; inflorescentia parviflora?; capsula 1-5 cm. longis, 2 cm. diametro, echinata, echinis 2-3 mm. longis, semina 5 mm. longa, 2 mm. lata, glabra, nigra. Junction of the rivers Beni and Madre de Dios. (1249).

BUETTNERIA CORIACEA, spec. nova. Folia coriacea, oblonga, vel oblongo-lanceolata, 12-14 cm. longa, 4-5 cm. lata, utrinque glabra, margine integra, nervi supra immersi, subter prominenti; petioli crassi, 1 cm. longi; ramis teretibus, glabris, sparse aculeatis, aculeis 2 mm. longis; inflorescetiâ multifloris, pedicellis et bracteis pubescentibus; calyce extus tomentoso; sepalis ovatis, acutis, 2 mm. longis. Capsula seminaque desiderantur. Junction of the rivers Beni and Madre de Dios. (2503).

Buettneria Carthaginensis, Jacq. Amer. 41. Guanai, 2,000 ft. (1250). The same as Spruce No. 3900 in Herb. Kew which is marked *B. lanceolata*, DC., to which species our specimens may perhaps best be referred.

TILIACEÆ.

Triumfetta rhomboidea, Jacq. Stirp. Amer. 147. Guanai, 2,000 ft. (714).

Triumfetta abutiloides, St. Hil. Flor. Bras. Merid. i. 223. ? Mapiri 2,500 ft. (1213).

Triumfetta althaeoides, Lam. Reis, 1,500 ft. (716) and (717 ?).

Triumfetta semitriloba, L. Mant. i. 73. Guanai, 2,000 ft. (715); Yungas, 6,000 ft. (718); Mapiri, 5,000 ft. (1236a) and 2,500 ft. (1450).

Heliocarpus Americanus, L. Sp. Pl. 448. Guanai, 2,000 ft. (1492); Beni River (1493).

Corchorus hirtus, L. l. c. Ed. 2, 747. Guanai, 2,000 ft. (1751).

Luhea uniflora, St. Hil. Fl. Bras. Merid. i. 226. Falls of Madeira, Brazil. (701).

Luhea speciosa, Willd. Neue Schrift. Gesell. Nat. Freunde, iii. 400. Yungas, 4,000 ft. (1028).

Luhea paniculata, Mart. and Zucc. Nov. Gen. i. 100. Yungas, 4,000 ft. (658).

Luhea nobilis, Planch. & Triana in Herb. Kew. Guanai, 2,000 ft. (1029).

MOLLIA BOLIVIANA, spec. nova. Folia ovata vel oblonga, subter pallida, integra, acuminata, 8-10 cm. longa, 3-4 cm. lata, utrinque lepidota; ramis teretibus, striatis, lepidotis; petiolis 1 cm. longis; capsula oblonga, exalata, densissime lepidota, 2-5 cm. longa, 1-5 cm. lata, papyracea; semina subrhomboidea, 5 mm. longa, 3 mm. lata. Mapiri, 2,500 ft. (2610). Collected only in fruit.

- Muntingia Calabura*, L. Sp. Pl. 509. Beni River. (1489).
Apieba Tibourba, Aubl. Pl. Guian. i. 538. Guanai, 2,000 ft. (612); Beni River (613), the latter specimen fragmentary and the determination uncertain. Falls of Madeira, with purple flowers, (611).
Apieba aspera, Aubl. l. c. 545. Mapiri, 2,500 ft. (723.)
Prockia Crucis, L. Sp. Pl. 745. Yungas, 6,000 ft. (499).
Prockia completa, Hook. Ic. Plant. i. t. 94. Guanai, 2,000 ft. (1491). Appears distinct enough from the common species.
Hasseltia laxiflora (Benth.), Eichl. in Mart. Flor. Bras. xiii. (I), 498. Falls of Madeira, Brazil. (2451).
Vallea stipularis, Mutis. in L. f. Suppl. 266. Unduavi, 8,000 ft. (465).
Sloanea obtusa (Splitg.), Schum. in Mart. Flor. Bras. Tiliaceæ, 181? Junction of the Rivers Beni and Madre de Dios. (1294 and 2648). I think there is little doubt of the determination, but am not altogether satisfied with it.
Tricuspidaria dependens, R. & P. Prodr. Fl. Per. t. 36. Near Valparaiso, Chili. (1025).

LINEÆ.

- Erythroxylon Coca*, Lam. Encycl. ii. 393. Junction of the Rivers Beni and Madre de Dios, Peruvian form, forest grown (2076); Yungas, 6,000 ft. Bolivian form (2077 and 2078); the best, cultivated (2079); wild, history unknown (2081); Mapiri, 5,000 ft. (2080).
Erythroxylon anguifugum, Mart. Abhand. Akad. Wiss. Munchen, 1840, 361. Junction of the Beni and Madre de Dios. (2075).
Erythroxylon macrophyllum, Cav. Diss. viii. 404. Mapiri, 5,000 ft. (2466.)

MALPIGHIACEÆ.*

- Byrsonima crassifolia* (L.), HBK. Nov. Gen. v. 149. Yungas, 4,000 ft. (504); Guanai, 2,000 ft. (505).
Byrsonima lævigata, DC. Prodr. i. 580? Mapiri, 2,500 ft. (1034). Near Spruce's No. 1648, Herb. Kew.
Byrsonima variabilis, Juss. in St. Hil. Flor. Bras. Merid. iii. 78?

*Satisfactory determination of many of these specimens cannot be had without reference to the Jussieuian types at Paris.

Rusby's plant has yellow flowers, differing in this respect from the description. Beni River. (507).

Byrsonima, a species collected in fruit. Yungas, 4,000 ft. (2170).

Bunchosia Lindeniana, A. Juss. Monog. Malpig. 81. Guanai, 2,000 ft. (2168).

Heteropteris trichanthera, A. Juss. l. c. 180. Guanai, 2,000 ft. (514).

Heteropteris macrostachya, A. Juss. l. c. Mapiri, 2,500 ft. (2417).

Heteropteris, near *H. grandiflora*, A. Juss. l. c. 207. Guanai, 2,000 ft. (2170a).

Heteropteris anoptera, A. Juss. l. c. 205. Yungas, 6,000 ft. (730).

Nos. 724, 733, 2172 and 2418 are probably of this genus but have not been determined.

Bannisterea argentea (HBK.), Spreng. in A. Juss. l. c. 139. Mapiri, 5,000 ft. (511).

Bannisteria Gardneriana, A. Juss. l. c. 167? Yungas, 6,000 ft. (1033); 4,000 ft. (852).

Bannisteria oxyclada, A. Juss. l. c. 142. Junction of the Beni and Madre de Dios. (2167).

Bannisteria Spruceana, Griseb. in Mart. Flor. Bras. Malpig. 45. Yungas, 6,000 ft. (515).

Tetraptyrys papyracea, Triana & Planch. Ann. Sci. Nat. (IV.) xviii. 334. Guanai, 2,000 ft. (513 and 731).

Hiræa Jussieana, Miq. Guanai, 2,000 ft.; (528); Yungas, 6,000 ft. (732).

Hiræa Riedleyana, A. Juss. l. c. 315. Guanai, 2,000 ft. (516).

Hiræa, related to the last. Guanai, 2,000 ft. (512).

Nos. 2169 and 2171 are probably of this genus, but not determined.

ZYGOPHYLLÆ.

Tribulus maximus, L. Sp. Pl. 553. Yungas, 6,000 ft. (739).

GERANIACEÆ.

Geranium dissectum, L. l. c. 956. Near Valparaiso, Chili. (762).

Geranium Carolinianum, L. l. c. Near La Paz, 10,000 ft. (760); Sorata, same altitude (761).

Geranium diffusum, HBK. Nov. Gen. v. 231. Sorata, 10,000 and 13,000 ft. (763 and 764).

Tropæolum Smithii, DC. Prodr. i. 684. Near La Paz, 10,000 ft. (759).

- Hypseocharis pimpinellifolia*, Remy Ann. Sci. Nat. (III.) viii. 238. Sorata, 8,000 ft. (2553).
- Oxalis corniculata*, L. l. c. 624. Near La Paz, 10,000 ft. (750 and 1020); near Valparaiso (*O. repens*). (2555).
- Oxalis microcarpa*, Benth. Pl. Hartw. 115. Mapiri, 2,500 ft. (747).
- Oxalis Barrelieri*, Jacq. Oxal. 4. Guanai, 2,000 ft. (944).
- Oxalis pubescens*, HBK. Nov. Gen. v. 239. Near LaPaz, 10,000 ft. (751). The same as Mandon's No. 851. Also a nearly glabrous form or variety from Yungas, 6,000 ft. (748).
- OXALIS BOLIVIANA, spec. nova. Caulescens, erecta, pubescens, 30-40 cm. alta, ramosa; foliis ternatis; petiolis gracilibus, 3-5 cm. longis; foliolis sessilibus, late triangularibus, truncatis vel bilobatis, 1-1.5 cm. longis, 2-3 cm. latis; pedunculis terminalibus, elongatis, sub 10-florus; flores gracile pedicellati, 15 mm. longi; sepalis linearibus, 7 mm. longis; petalis luteis et purpureis. Yungas, 6,000 ft. (756). Evidently of the same group as the last.
- Oxalis scandens*, HBK. l. c. 241. Unduavi, 8,000 ft. (749); Sorata, 8,000 ft. (752).
- Oxalis medicaginea*, HBK. l. c. Unduavi, 8,000 ft. (755). A form or variety with small leaves the same as Mandon's No. 849.
- OXALIS ANDINA, spec. nova. Caulibus filiformibus, repentibus, parce pubescentibus; foliis trifoliolatis; foliolis obcordato-bilobis, 5-8 mm. longis, 6-9 mm. latis minute reticulatis; petiolis gracilibus, 3-4 cm. longis, stipulis latis, prominentibus; pedunculis petiolis valde superantibus, pubescentibus, medio 2-bracteolatis; sepalis obtusibus, 6 mm. longis; corolla purpurea, 2 cm. longa. Unduavi, 8,000 ft. (1212). Related to the last.
- Oxalis*, of the same section as the last but material too scanty for determination; probably undescribed. Yungas. (753).
- Oxalis lobata*, Sims, Bot. Mag. t. 2386. Near Valparaiso, Chili. (757).
- Oxalis violacea*, L. Sp. Pl. 621. Sorata, 8,000 ft. (746); also from Yungas (745 and 758), the exact localities uncertain; I cannot separate these specimens from the N. A. plant.
- Oxalis dendroides*, HBK. Nov. Gen. v. 250. Mapiri, 2,500 ft. (856); also from 10,000 ft. (1752).

RUTACEÆ.

- Erythrochiton Brasiliensis*, Nees et Mart. Nov. Act. Cur. xi. 166.
 Guanai, 2,000 ft. (2615).
Galipea; a species resembling in leaf form *G. pentagona* but with very different fruit. Guanai, 2,000 ft. (2072).
Esenbeckia alata (Karst. & Tri.), Tri. & Planch., Ann. Sci. Nat. (V). xiv. 306. Falls of Madeira, Brazil. (2617 and 2663).
Zanthoxylum; a species with extremely dense stellate pubescence, evidently related to *Z. stelligerum*, Turcz., but probably distinct; collected only in fruit. Guanai, 2,000 ft. (2592).

SIMARUBEÆ.

- Dictyoloma Peruvianum*, Planch. in Hook. Lond. Journ. Bot. v. 583. Guanai, 2,000 ft. (738).
 BRUNELLIA OLIVERII, spec. nova. Arbor, 20-40 pedalis; ramulis striatis, glaucis; foliis oppositis, imparripinnatis, 25-35 cm. longis, rigidis 5-6 jugis; foliolis ovato-lanceolatis, crenato-serratis, utrinque glabris, supra viridis, nitidis, subter pallidis, sessilibus vel breviter petiolatis; petiolis crassis, 6 cm. longis; paniculis axillaribus, tomentosis 6-8 cm. longis; flores 2 mm. lat.; calyx 4-partitus; pedicellis 2-3 mm. longis; stamina 8; fructus pubescens, 4 mm. longus; semina nigra. Unduavi, 8,000 ft. (1372). Collected also by R. Pearce about Tuapi, near Moro, 4-5,000 ft., Jan. 1866, Herb. Kew. Named in honor of Professor Daniel Oliver, who kindly determined for me this puzzling genus.
Picramnia Sellowii, Planch. in Hook. Lond. Journ. Bot. v. 578. Reis, 1,500 ft. (2690). Collected only in fruit.
Picramnia Spruceana, Engl. in Mart. Fl. Bras. xii. (2), 238. Junction of the rivers Beni and Madre de Dios. (740).

OCHNACEÆ.

- Ouratea acuminata* (DC.), Engl. in Mart. Fl. Bras. xii. (2), 318. (*Gomphia acuminata*, DC.) Falls of the Madeira, Brazil. (2673 and 2689).
Ouratea inundata (Spruce), Engl. var. *erythrocalyx* (Spruce), Engl.? Falls of the Madeira, Brazil. (2645).
Ouratea, a species with elongated leaves and racemes, not matched at Kew, and probably undescribed. Junction of the Beni and Madre de Dios. (2710).